

SOFT CAPSULE FOR HIGHLY SAFE FOOD AND MEDICINE

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Inventor: SUGII HAJIME
Applicant: SUGII HAJIME
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Abstract of JP7196478

PURPOSE: To provide a soft capsule comprising an edible capsule coating film not containing an animal protein and capable of being easily dissolved, high in safety, and used for medicines and foods.

CONSTITUTION: Three kinds of components comprising an edible polymeric substance (e.g. alginic acid) which can easily be dissolved in water, whose 1% aqueous solution has a viscosity of ≤ 1000 cps at 70°C, and which does not contain an animal protein as a film-forming base agent, an agar and/or a low mol. wt. agar having a jelly strength of $\leq 300\text{g/cm}^2$ a gelled film-forming base agent, and a plasticizer (e.g. glycerol) are combined with each other to provide a soft capsule coating film-forming material. The soft capsule coating film-forming material is prepared into a soft capsule by a dropping method. By the method, a capsule content solution and the capsule coating film-forming material solution are extruded from an inside extrusion nozzle and an outside extrusion nozzle, respectively, among the nozzles of a triple or double structure into an oily liquid at a constant rate with a pump or the gravity, and the extruded solution is cut at a constant distance by some physical force such as vibration, impact or the difference between the flow rates of the capsule solution and the oily liquid, thus forming spherical soft capsules each having a diameter of 0.3-20mm by the interfacial tension between the oily liquid and the capsule coating film-forming solution.

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